



For additional information or questions contact

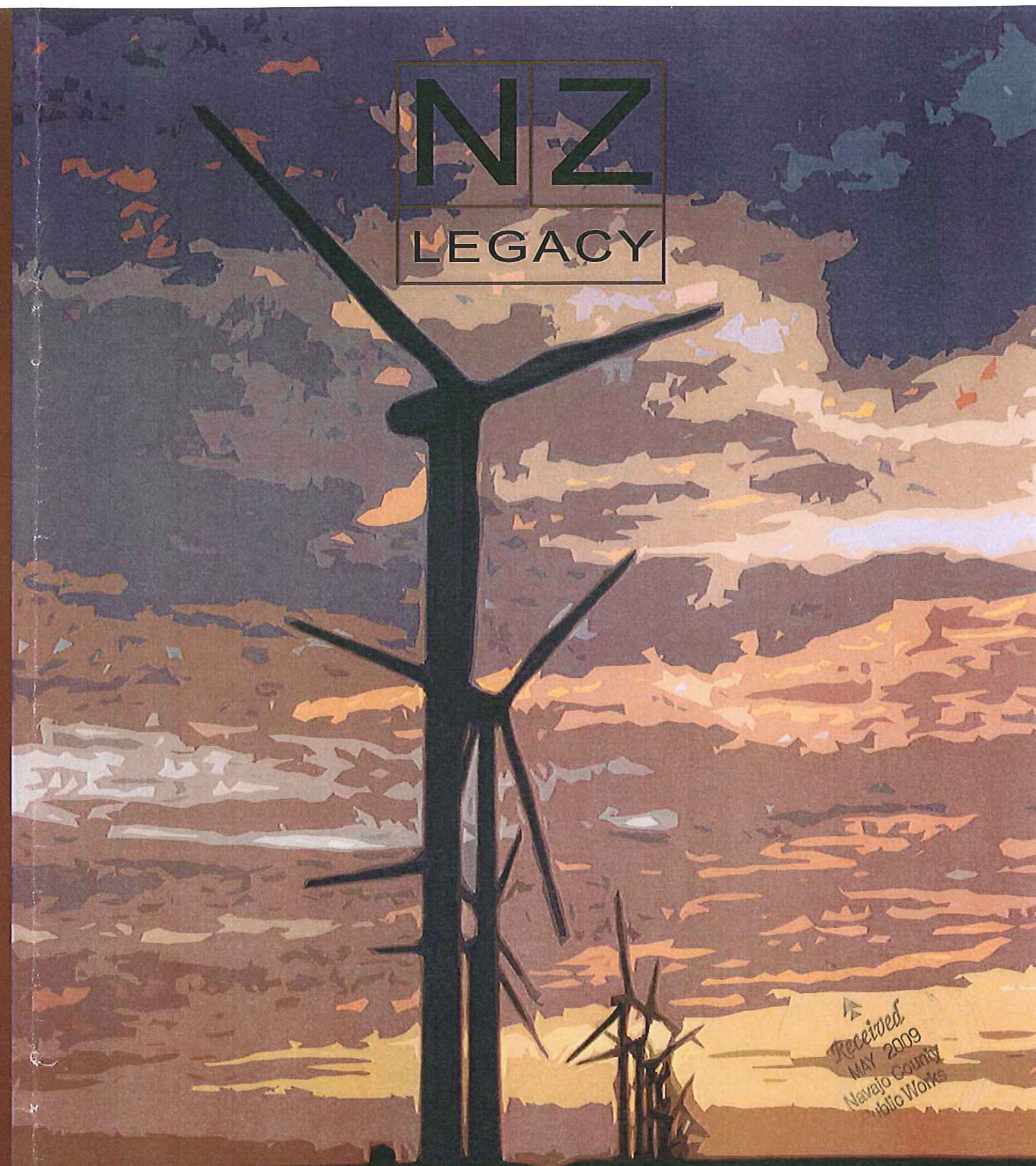
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MAY 2009  
Navajo County  
Public Works


Energy Project Proposal  
05 May 2009



A large white wind turbine is being constructed in a field. A tall orange lattice crane stands next to it, reaching up towards the nacelle. The sky is a clear, pale blue. In the background, there are some trees and other construction equipment.

The wind segment of the energy industry broke installation records in 2005, expanding by more than 35 percent. The total capacity for energy generation in the U.S. at the end of 2004 was 6,740 MW or enough electricity to power over 1.6 million average American homes.

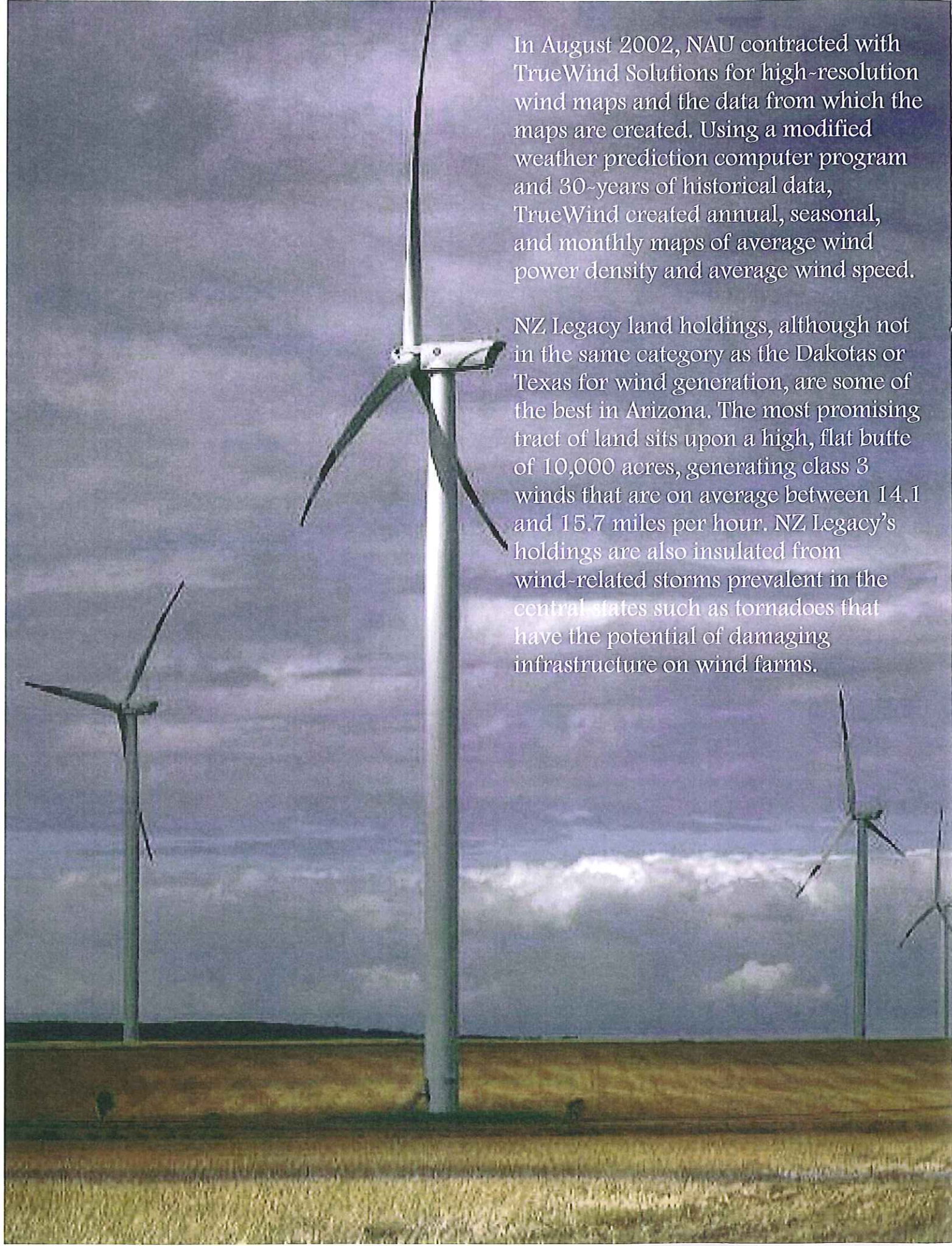
Experts from the American Wind Energy Association estimate that the U.S. can potentially generate 10,777 billion kWh annually, or twice the current amount of energy generated in the United States by all sources combined. Wind and Solar energy are renewable, environmentally friendly, and seen as a way to revitalize rural economies, create higher-wage jobs, increase populations and boost local tax revenues.

A close-up, low-angle shot of a solar concentrator array. The image shows a grid of rectangular mirrors or lenses mounted on a dark frame. The perspective creates a strong sense of depth and repetition, with the mirrors receding into the distance. The lighting is bright, creating high contrast between the reflective surfaces and the dark frame.

Worldwide electricity consumption is projected to double by the year 2040. This demand represents an unprecedented opportunity for building clean, renewable power generation.

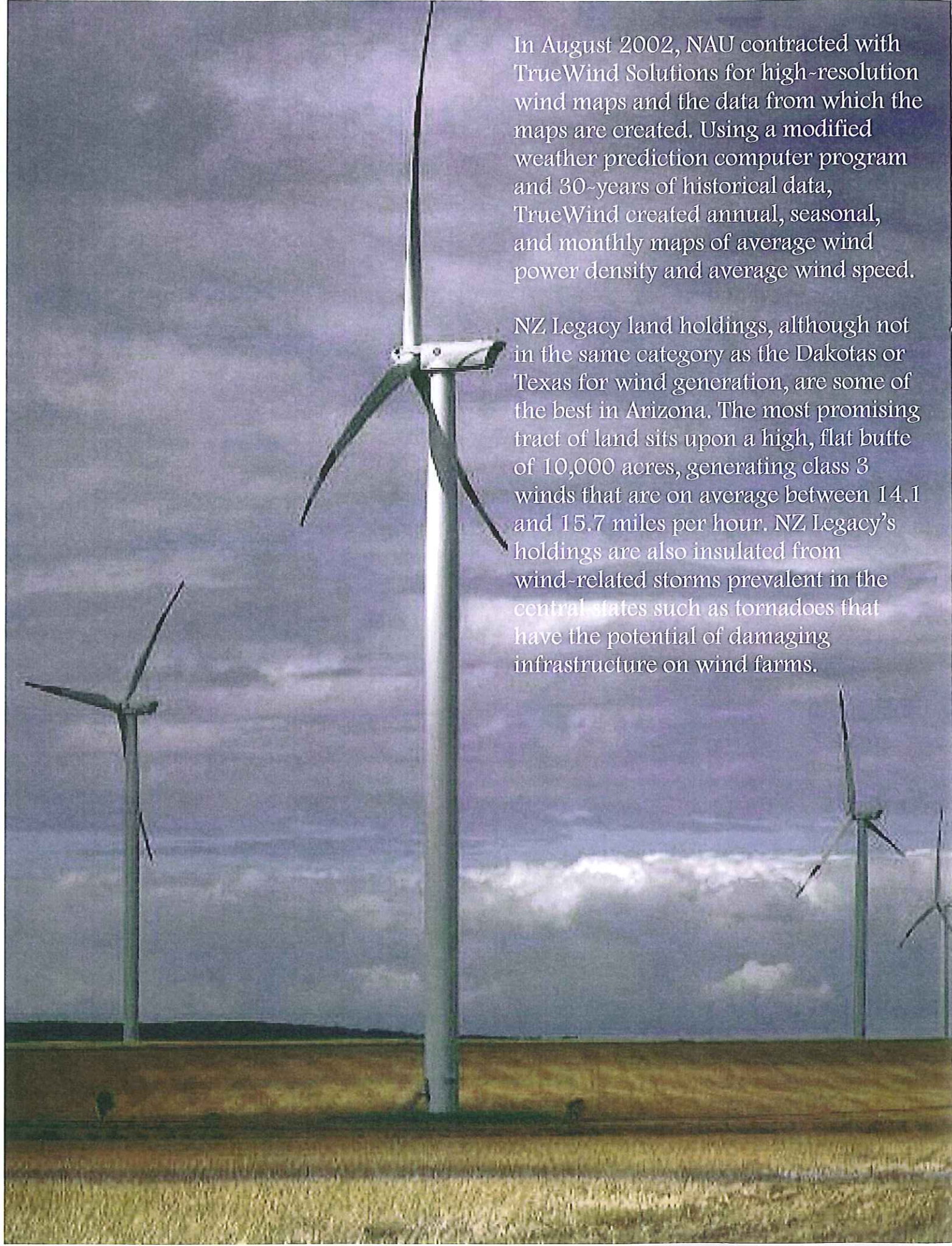
Concentrating Solar Power technology offers clean, carbon-free, peak power production. Covering 1% of the Sahara Desert with Concentrating Solar Power technology would provide enough electricity to power the entire world.



A photograph of a wind farm. In the foreground, a large white wind turbine stands prominently, its three blades extending outwards. To its left and right, other similar turbines are visible in the distance. The ground is a flat, dry, yellowish-brown field. The sky is filled with heavy, grey clouds, suggesting an overcast day. The overall scene depicts a large-scale renewable energy installation in a rural or undeveloped area.

In August 2002, NAU contracted with TrueWind Solutions for high-resolution wind maps and the data from which the maps are created. Using a modified weather prediction computer program and 30-years of historical data, TrueWind created annual, seasonal, and monthly maps of average wind power density and average wind speed.

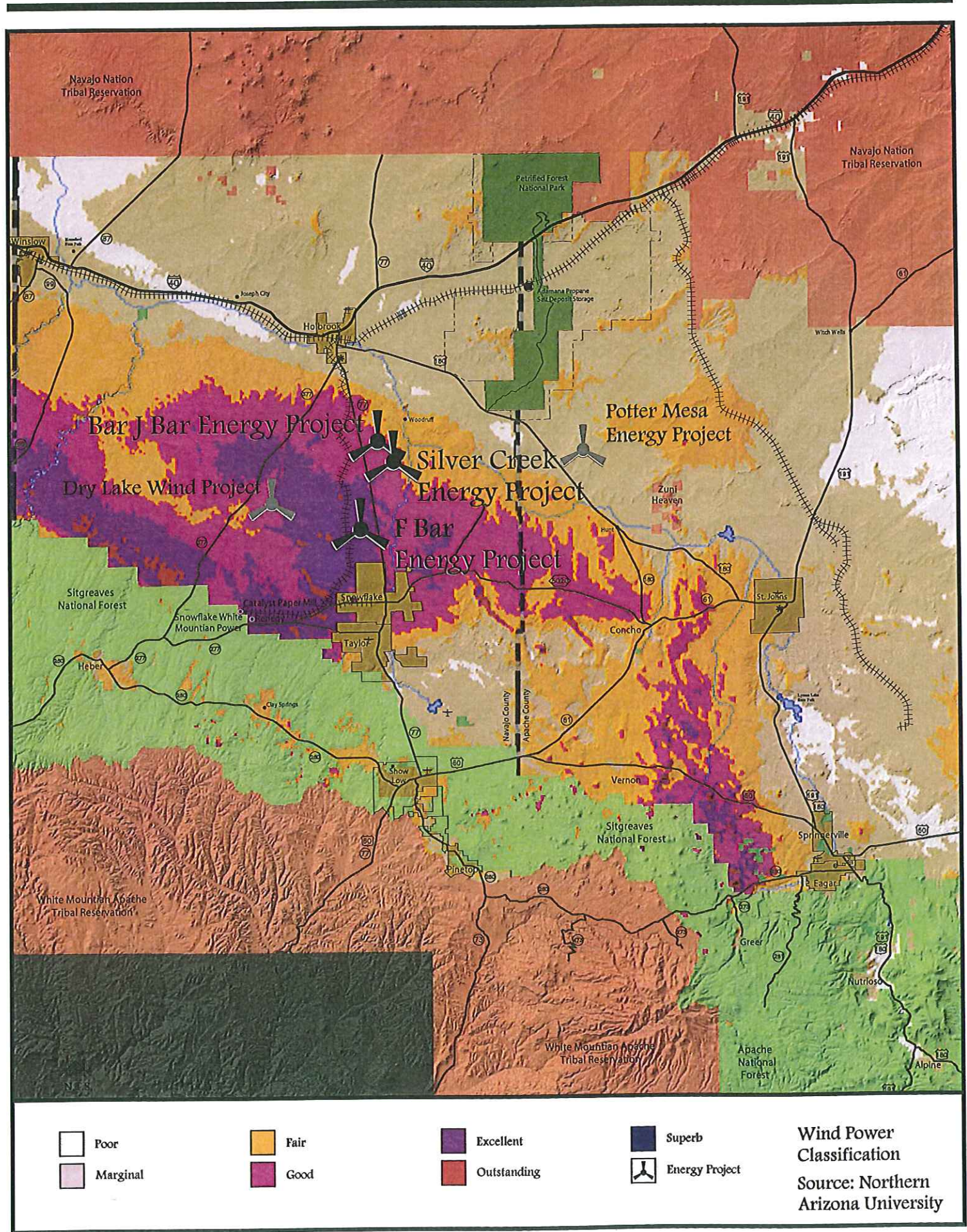
NZ Legacy land holdings, although not in the same category as the Dakotas or Texas for wind generation, are some of the best in Arizona. The most promising tract of land sits upon a high, flat butte of 10,000 acres, generating class 3 winds that are on average between 14.1 and 15.7 miles per hour. NZ Legacy's holdings are also insulated from wind-related storms prevalent in the central states such as tornadoes that have the potential of damaging infrastructure on wind farms.

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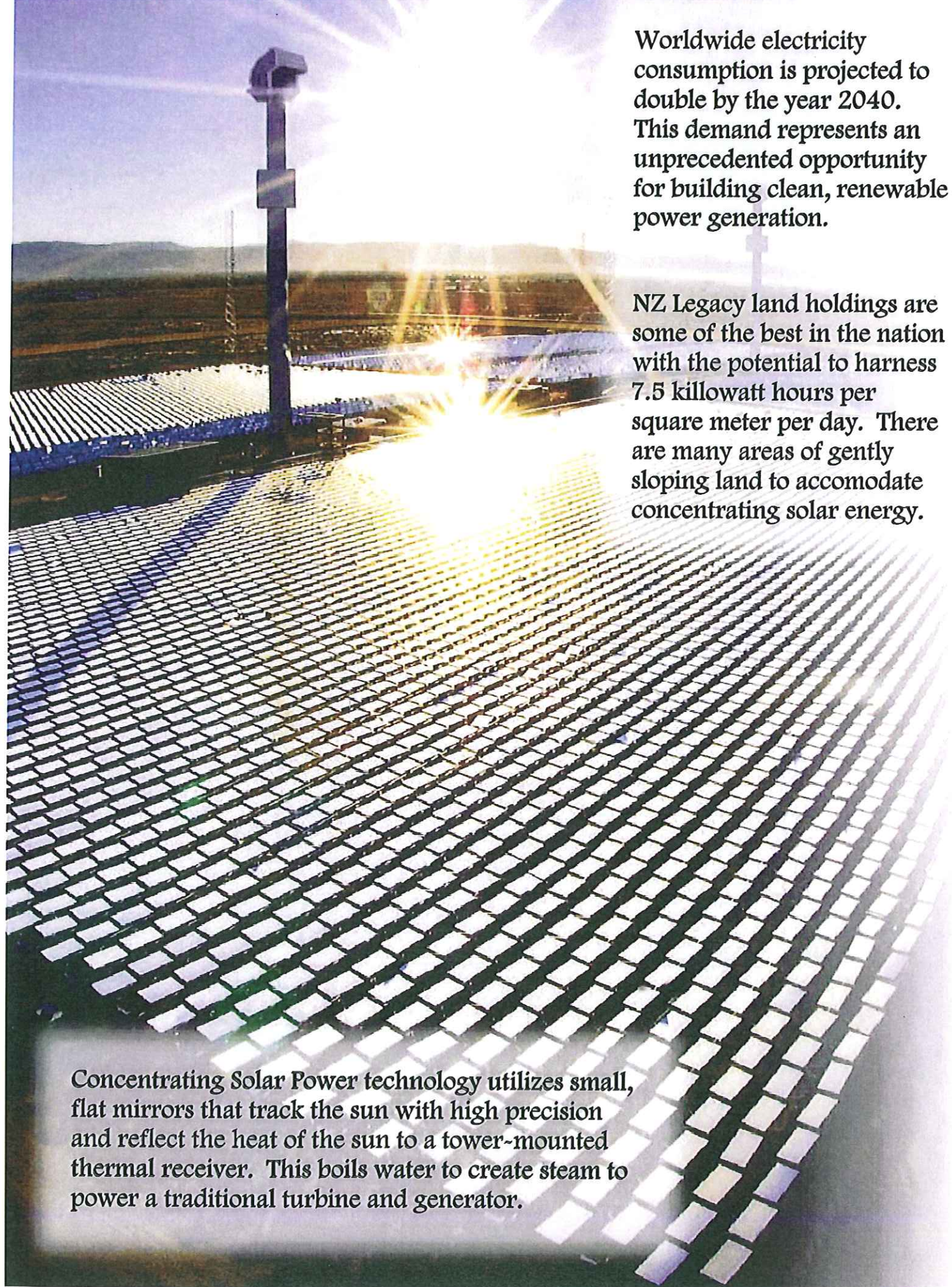
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## 100m Avg. Annual Wind Resource





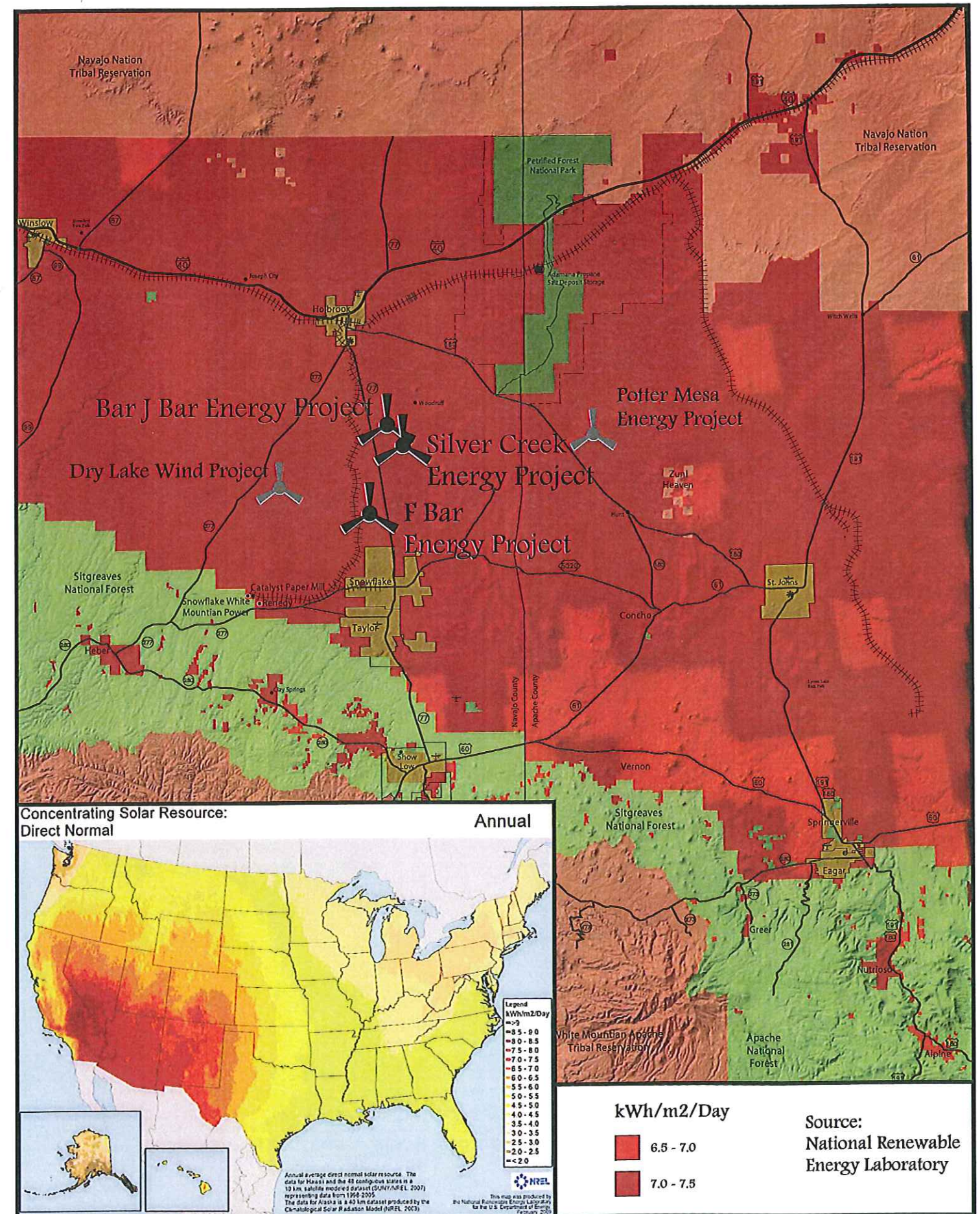


Worldwide electricity consumption is projected to double by the year 2040. This demand represents an unprecedented opportunity for building clean, renewable power generation.

NZ Legacy land holdings are some of the best in the nation with the potential to harness 7.5 kilowatt hours per square meter per day. There are many areas of gently sloping land to accommodate concentrating solar energy.

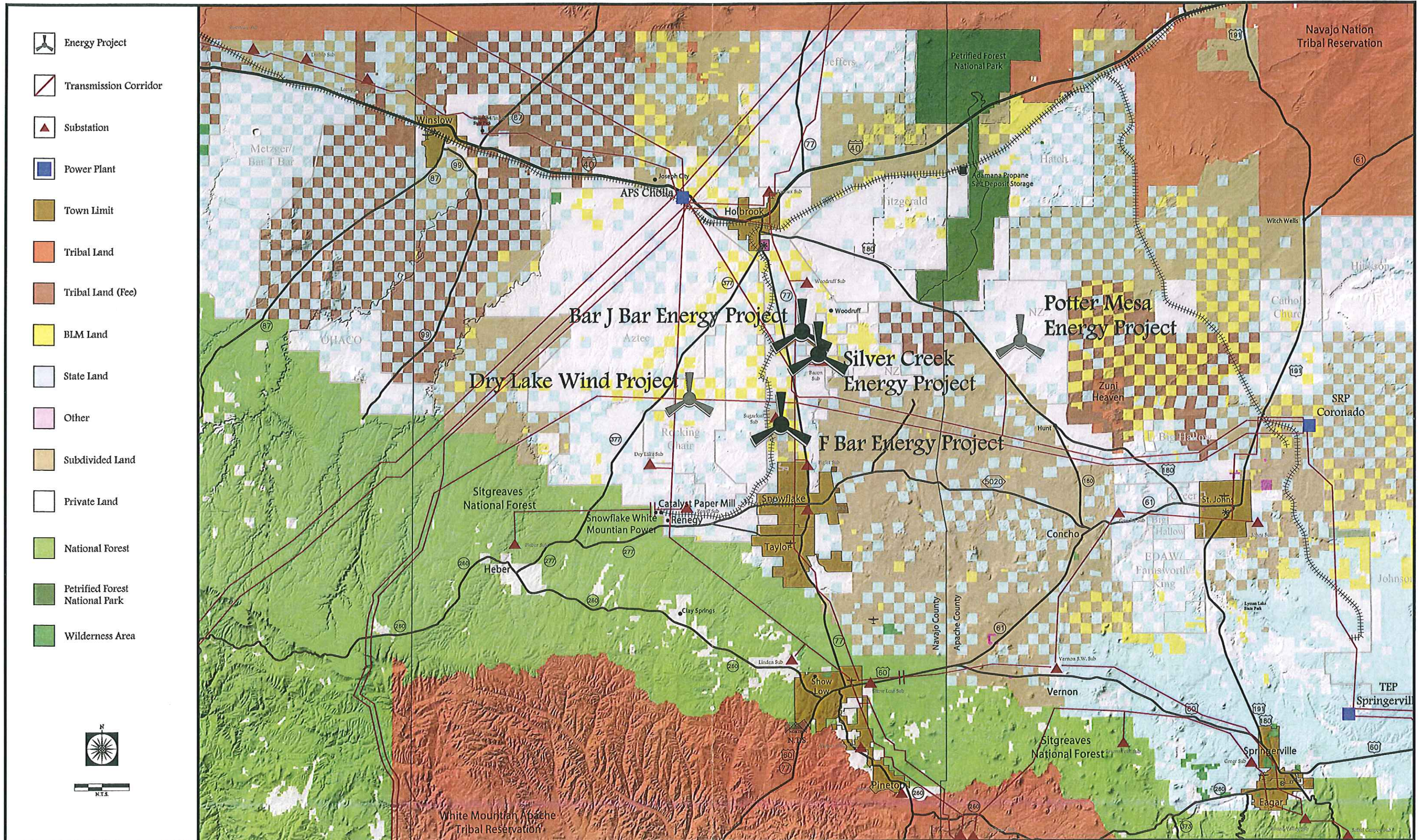
Concentrating Solar Power technology utilizes small, flat mirrors that track the sun with high precision and reflect the heat of the sun to a tower-mounted thermal receiver. This boils water to create steam to power a traditional turbine and generator.

# Annual Concentrating Solar Resource



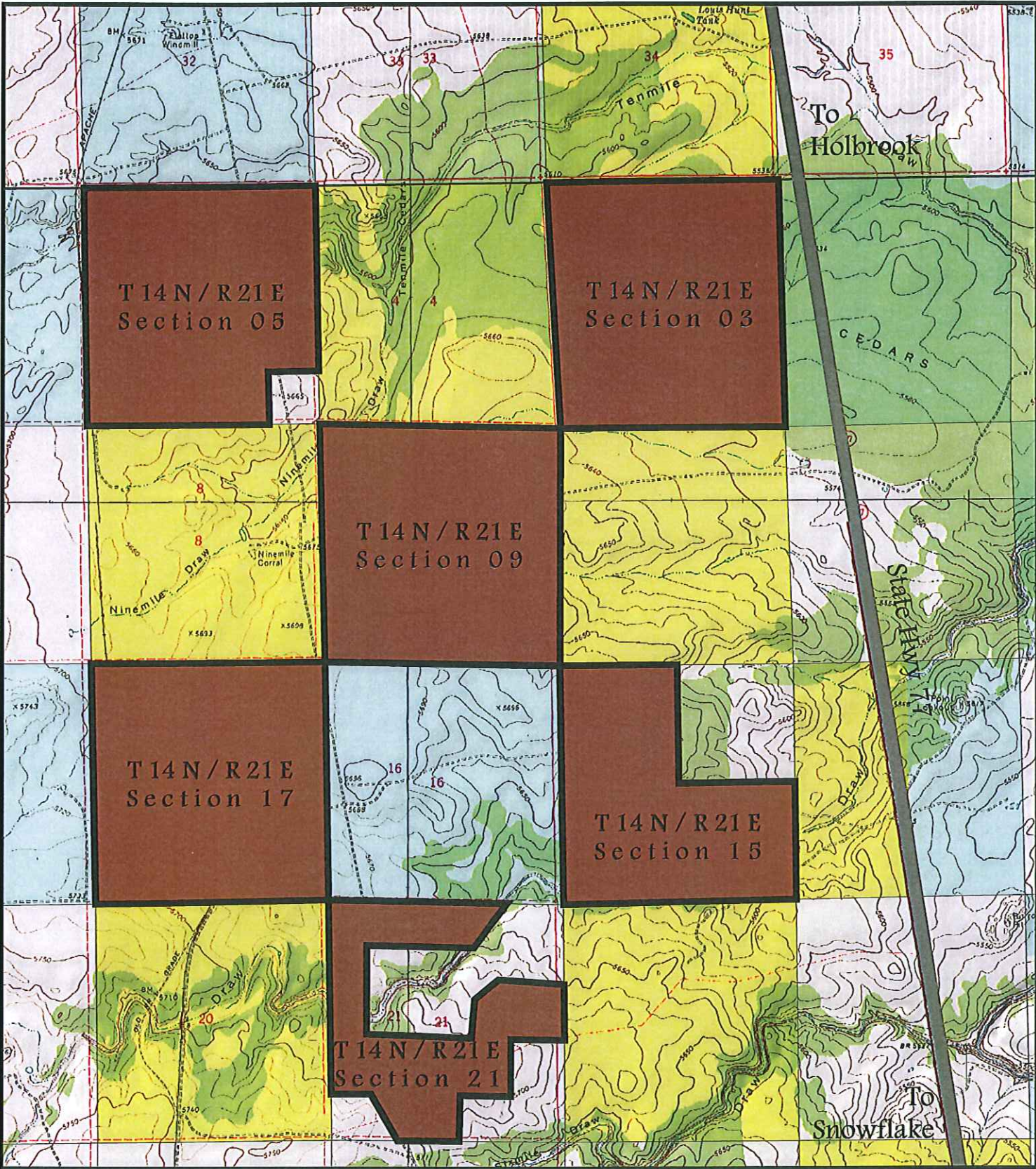


# Regional Context





# F Bar Special Use Permit Parcels

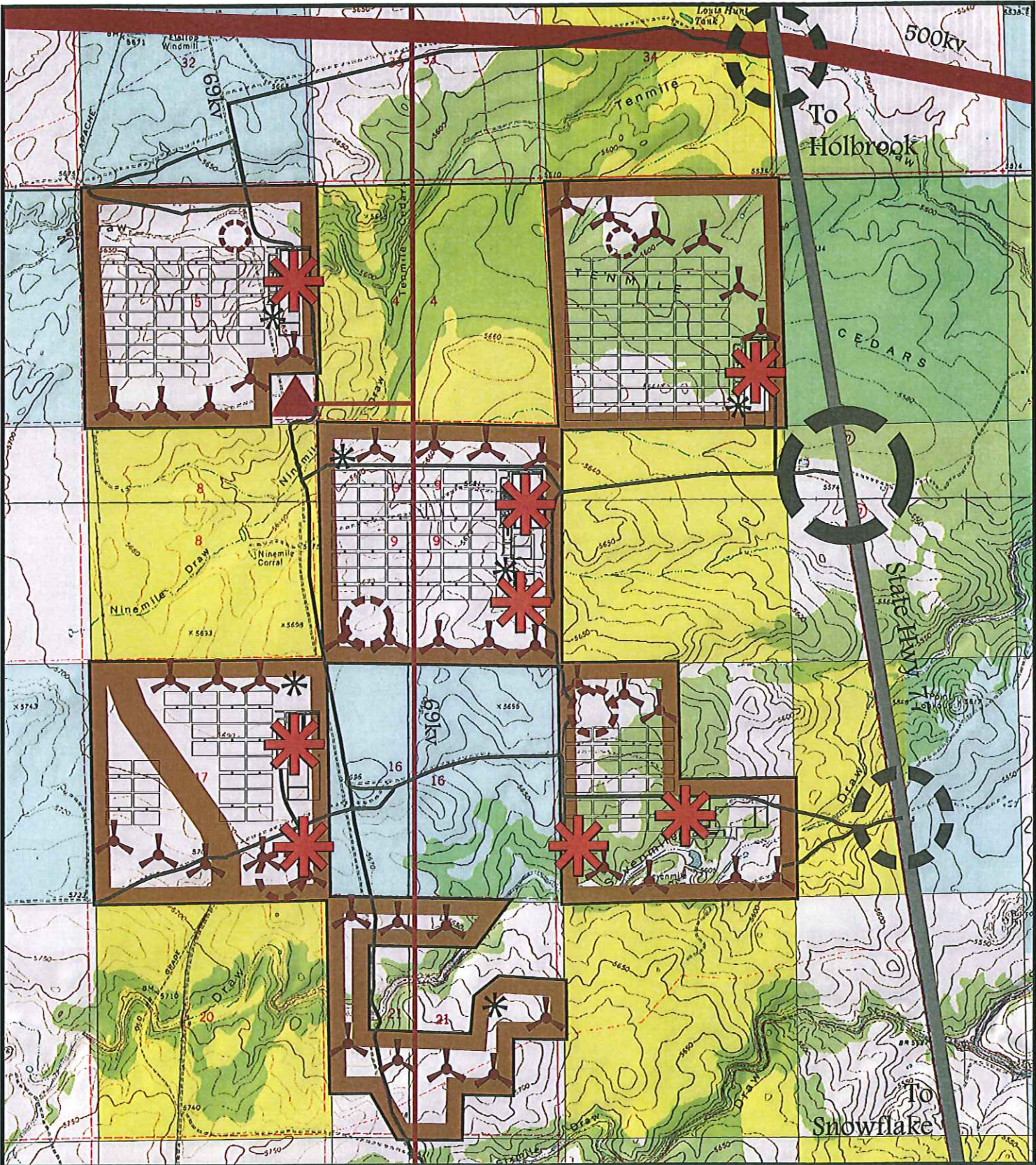


Special Use Permit Parcel  
T 14 N - R 21 E  
Section 03, 05, 09, 17,  
portion of 15 and 21

Wind Turbine, Concentrated Solar Power Mirror and Tower, and Met. Tower locations may differ for landforms, soils, rotor spacing, wind resource efficiency, solar resource efficiency, and infrastructure locations and costs. Collector lines between Wind Turbines, Wind Turbine rows, and Concentrated Solar Power will link to substations and transmission lines located on site and connect to the electric grid off site. 8' fence may surround Wind Turbine towers, mirror fields, substations, Operations and Maintenance Facilities, Staging Areas, and may be used to restrict Access Points. Mass grading may be required for installation of infrastructure and energy projects. Service Access may be asphalt, decomposed granite, or gravel. Other materials may be approved by the County.

Private / Other Land  
State Land  
BLM Land

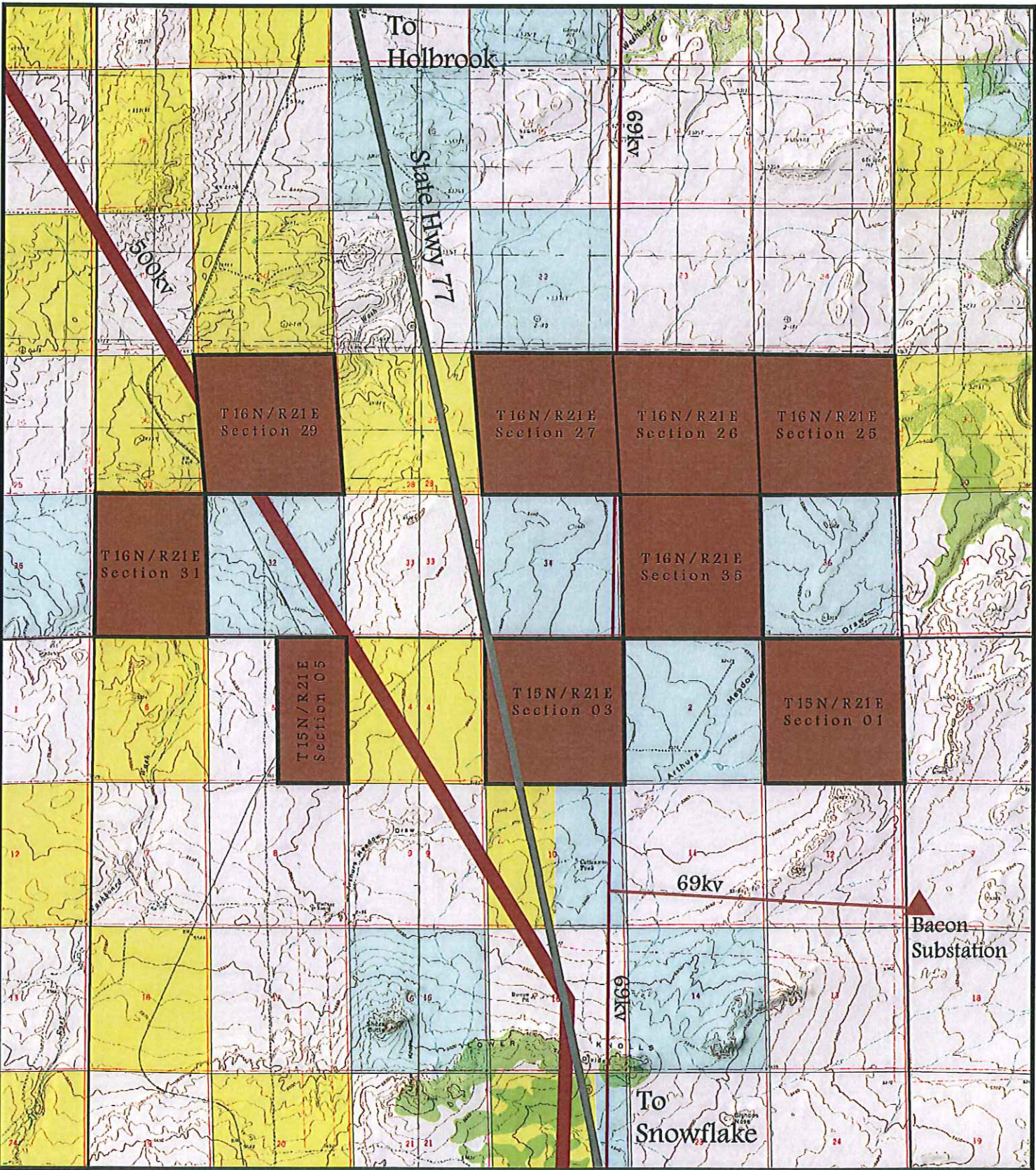
# F Bar Conceptual Site Plan



Private / Other Land	Existing Transmission Corridor	Primary Access Point	100m Tower Buffer	Proposed Wind Turbine
State Land	Substation	Secondary Access Point	Proposed Operation and Maintenance Facility	Proposed Concentrating Solar Power
BLM Land	Power Plant	Service Access	Proposed Staging Area	Proposed Met. Tower



# Bar J Bar Special Use Permit Parcels



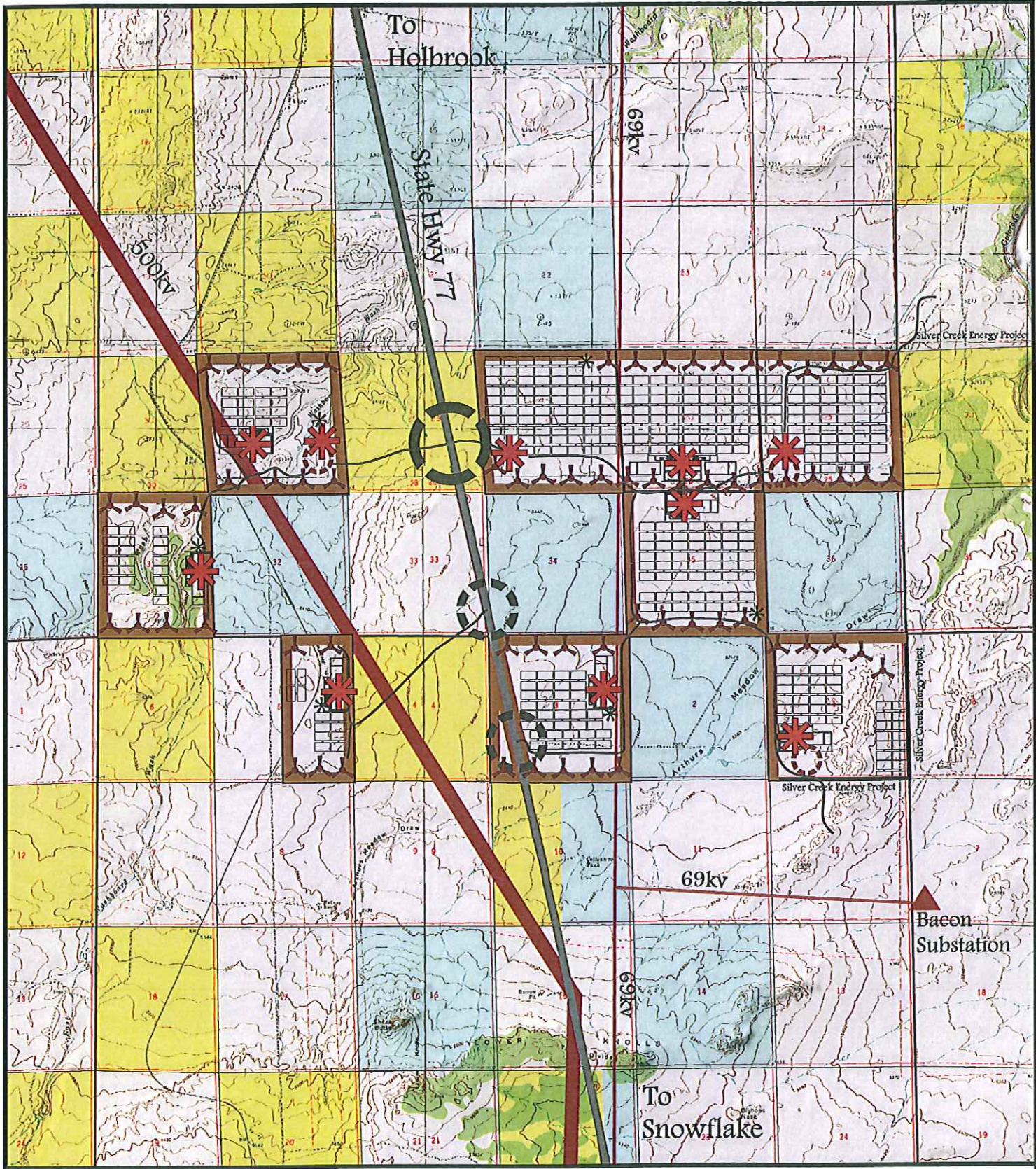
Special Use Permit Parcel

T 15 N - R 21 E  
Section 01, 03,  
E2 of 05  
T 15 N - R 21 E  
Section 25, 26, 27, 29,  
31, and 35

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Private / Other Land  
State Land  
BLM Land

# Bar J Bar Conceptual Site Plan



Private / Other Land  
State Land  
BLM Land

Existing Transmission Corridor  
Substation  
Power Plant

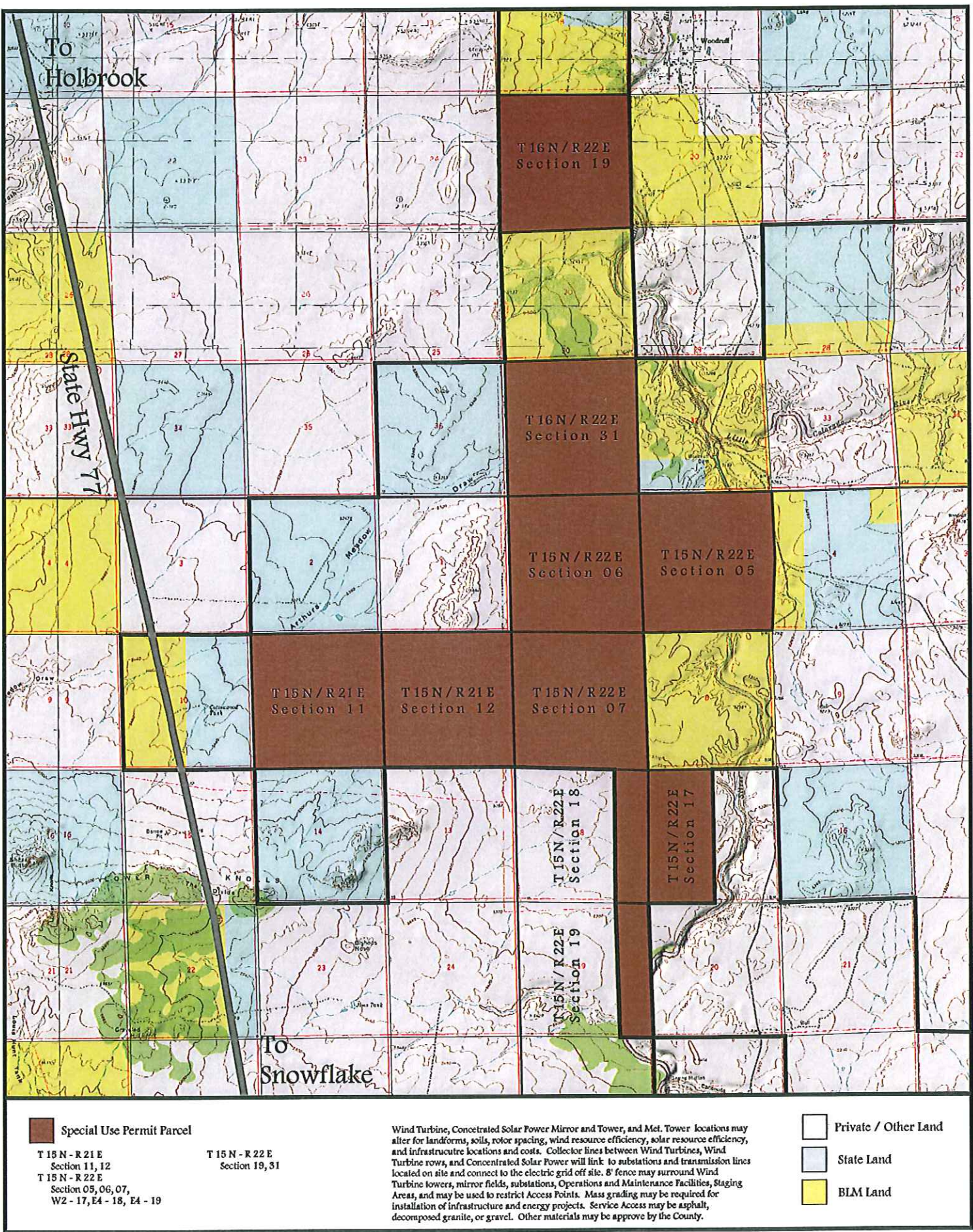
Primary Access Point  
Secondary Access Point  
Service Access

100m Tower Buffer  
Proposed Operation and Maintenance Facility  
Proposed Staging Area

Proposed Wind Turbine  
Proposed Concentrating Solar Power  
Proposed Met. Tower



# Silver Creek Special Use Permit Parcels



# Silver Creek Conceptual Site Plan

